

FIG. 1A
 Original nickel tool

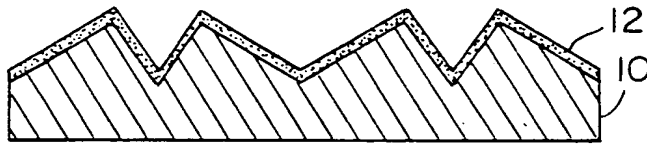


FIG. 1B
 Coat tool with layer of photoresist

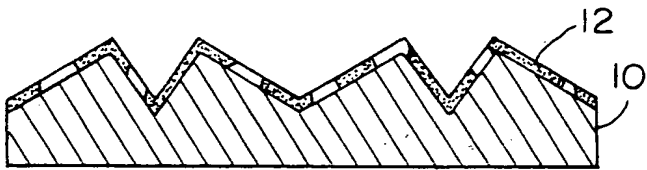


FIG. 1C
 Random exposure of photoresist to a speckle pattern

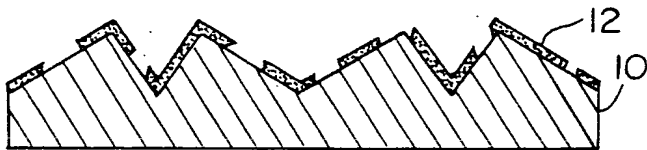


FIG. 1D
 Development of resist

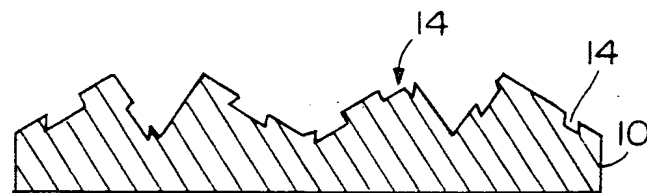


FIG. 1E
 Reactive ion-etching to produce modified mold body

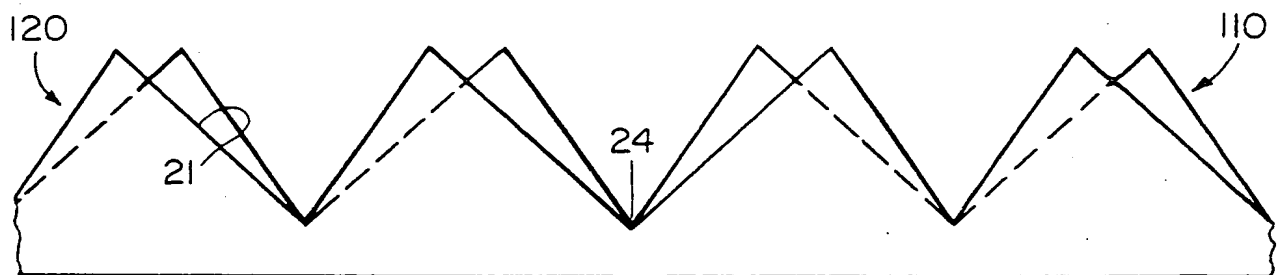


FIG. 3

0901199-070901

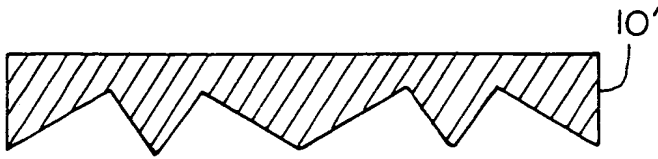


FIG. 2A

Cast of original tool

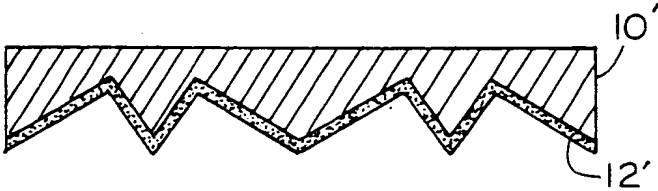


FIG. 2B

Coat cast with layer of photoresist

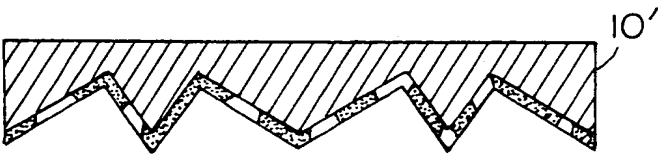


FIG. 2C

Random exposure of photoresist to a speckle pattern

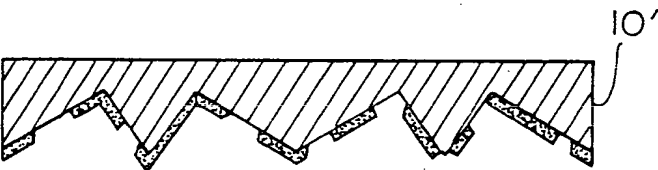


FIG. 2D

Development of resist

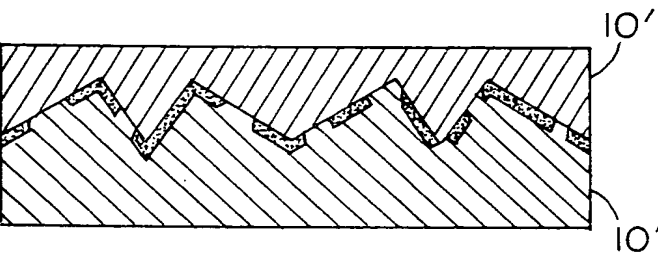


FIG. 2E

Electroform with nickel to create a new indenting tool

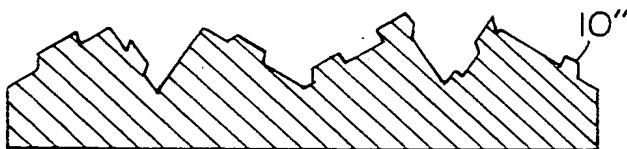
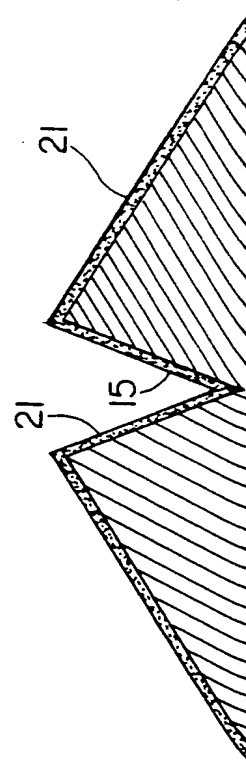
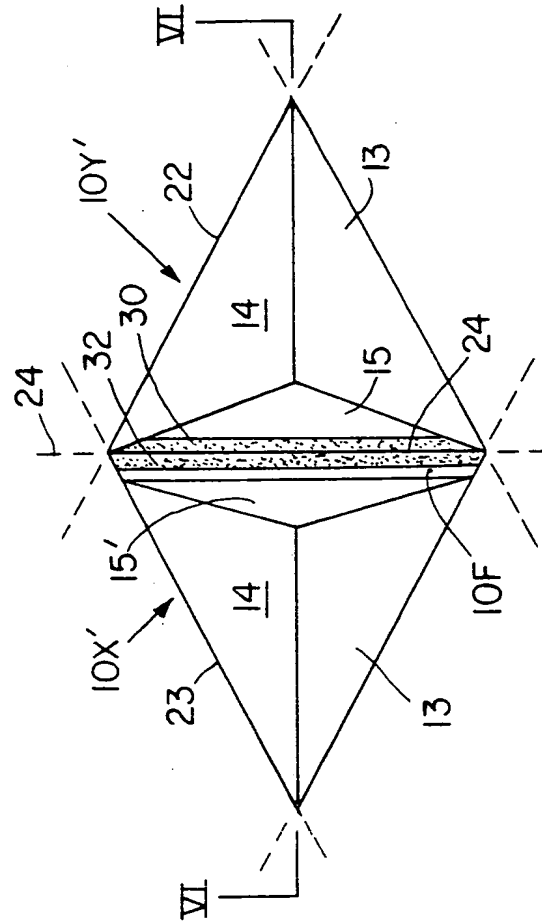
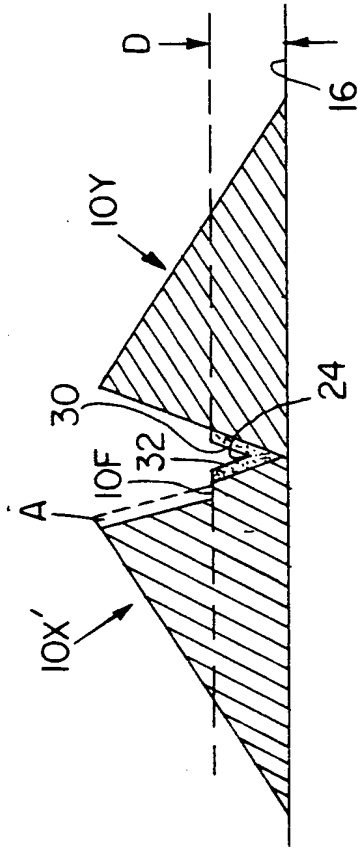
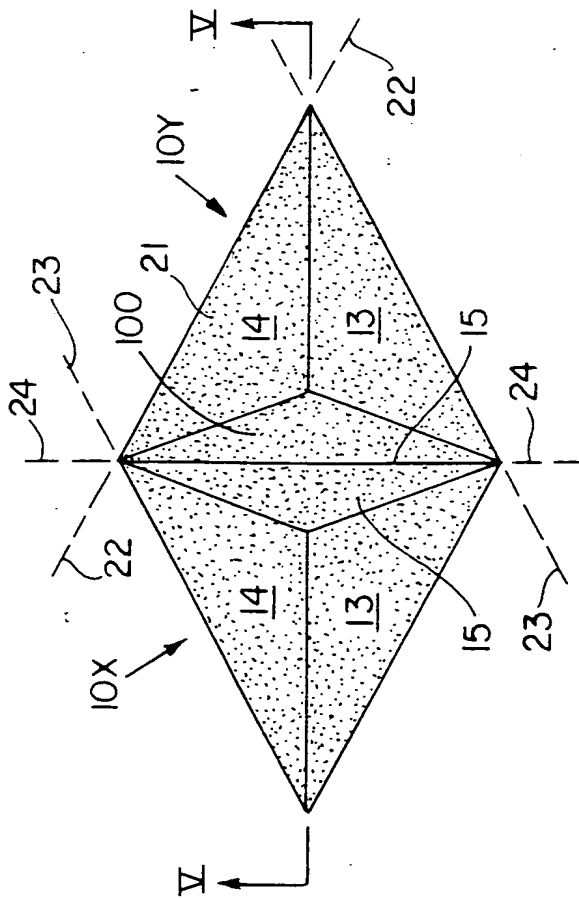


FIG. 2F

Removing the cast to reveal the new nickel indenting tool

106020" 66T0660



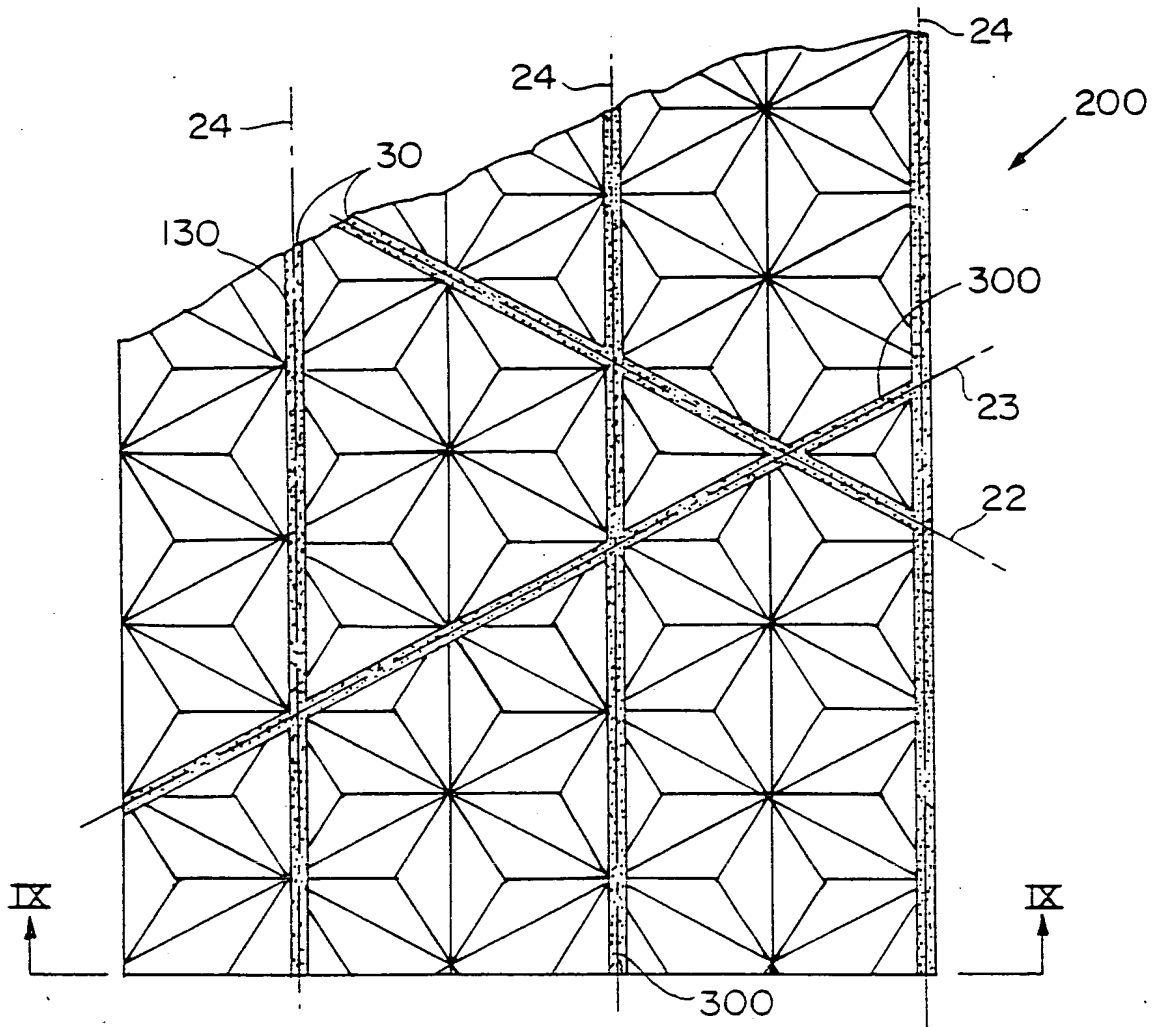


FIG. 8

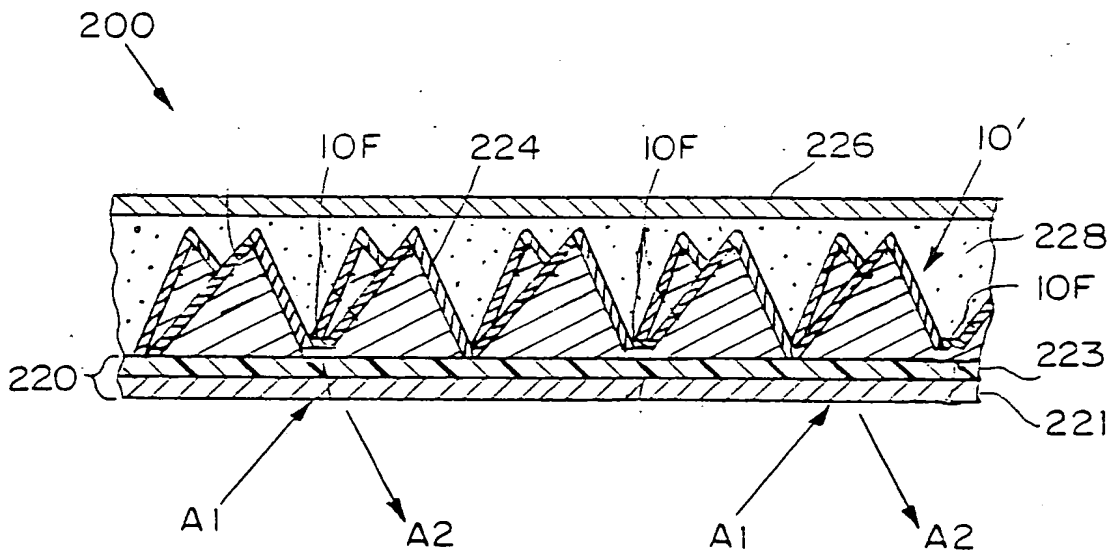


FIG. 9

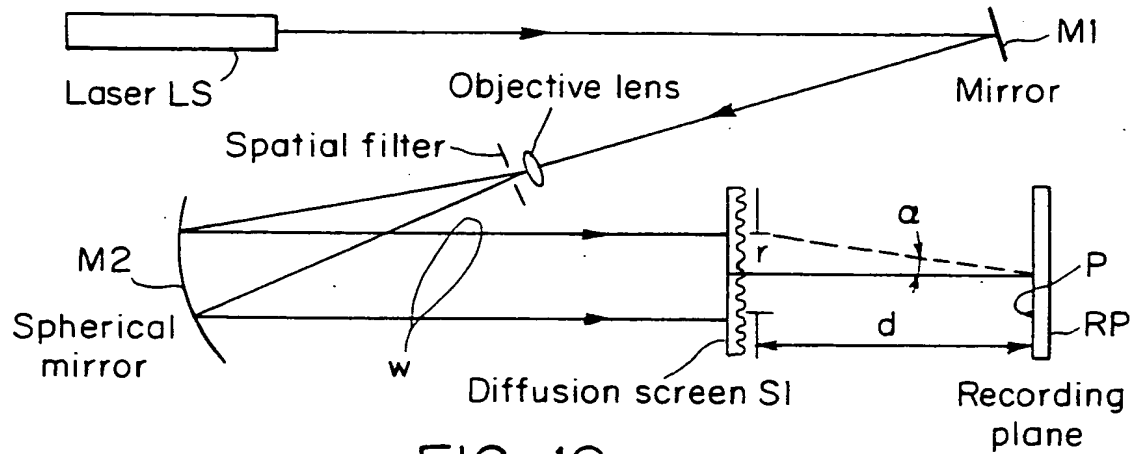


FIG. 10

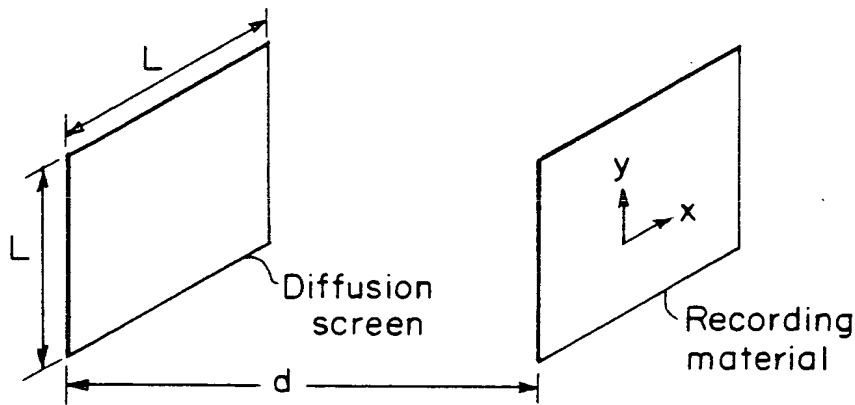


FIG. 12

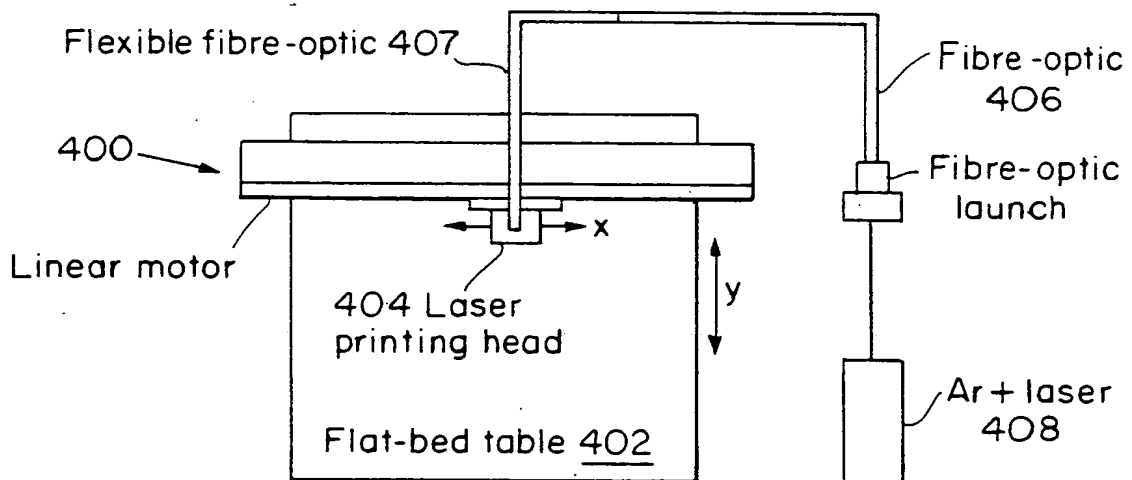
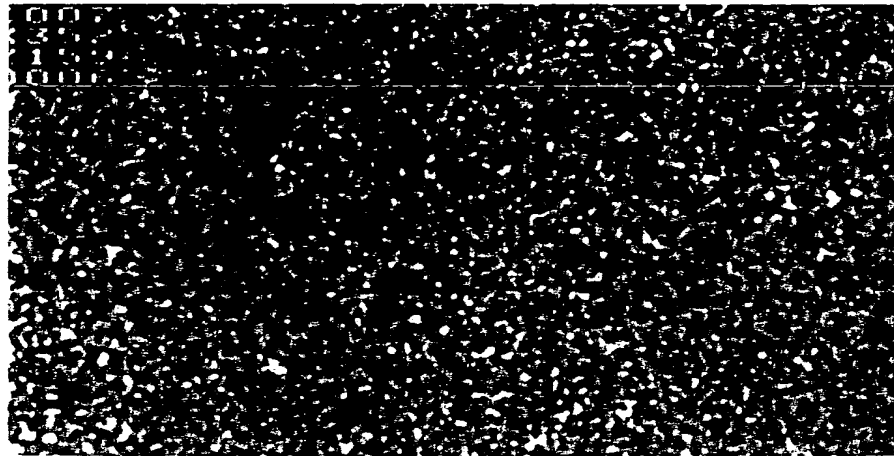


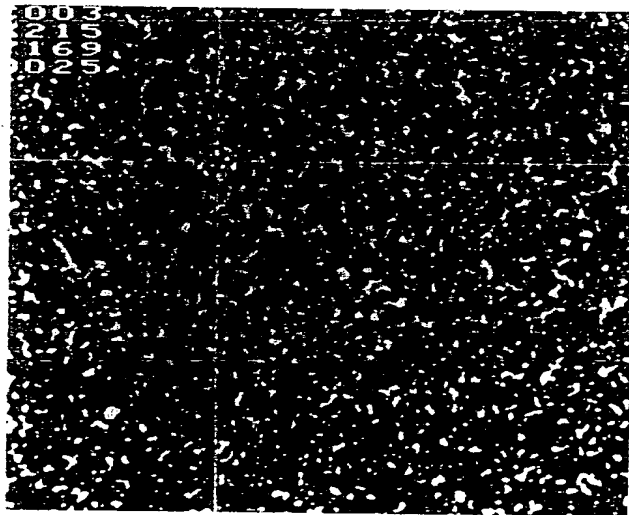
FIG. 13

006020" 65TFO660



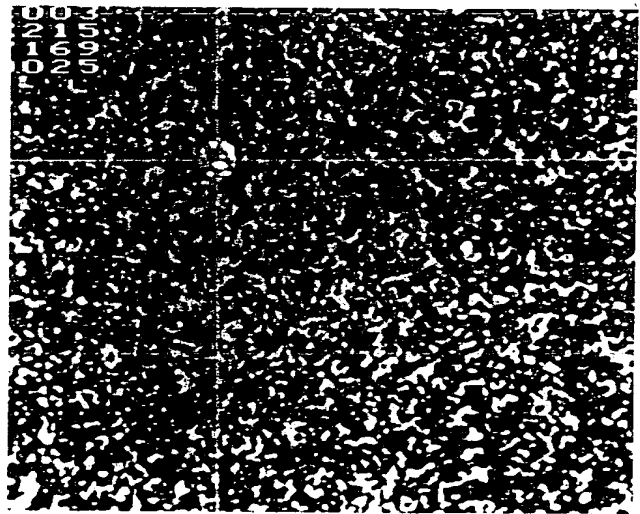
200 μ m

FIG. 11



480mJ/cm²

FIG. 19A



497mJ/cm²

FIG. 19B

00001199.070901

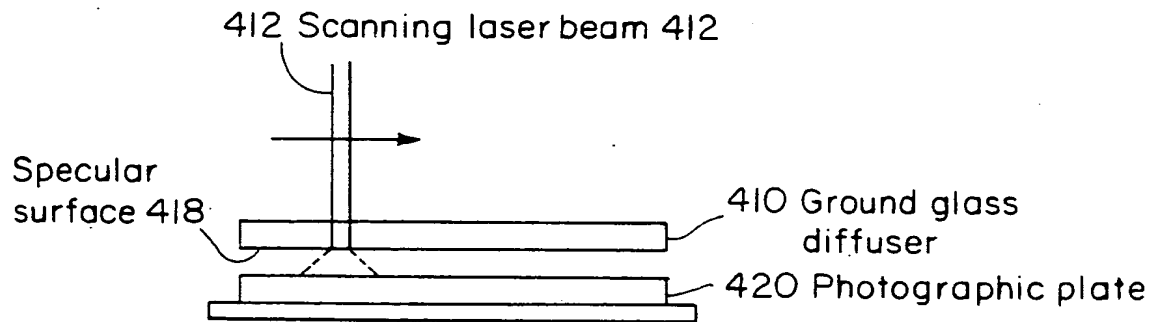


FIG. 14

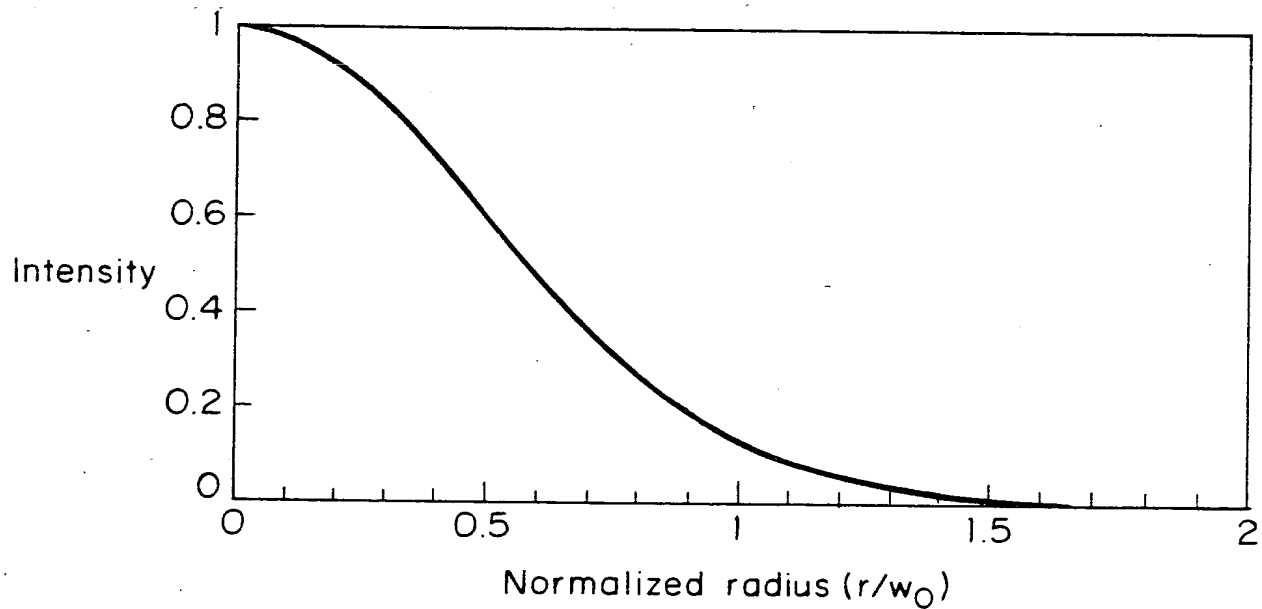


FIG. 15

FIG. 14

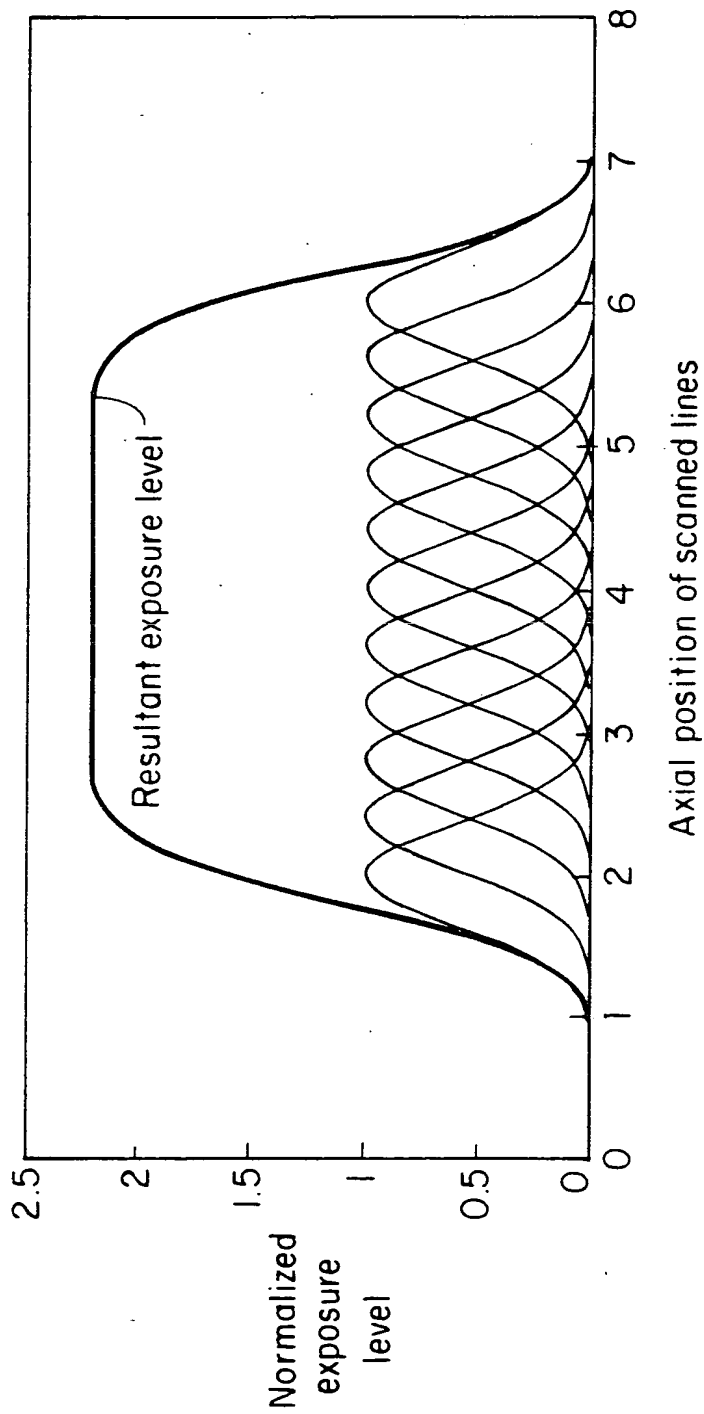


FIG. 16

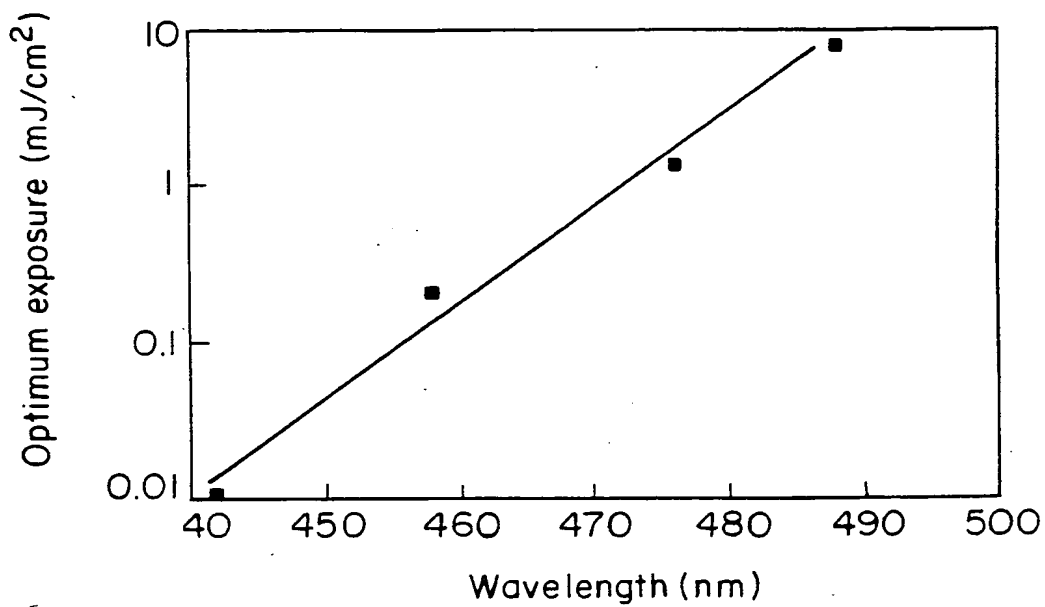


FIG. 17

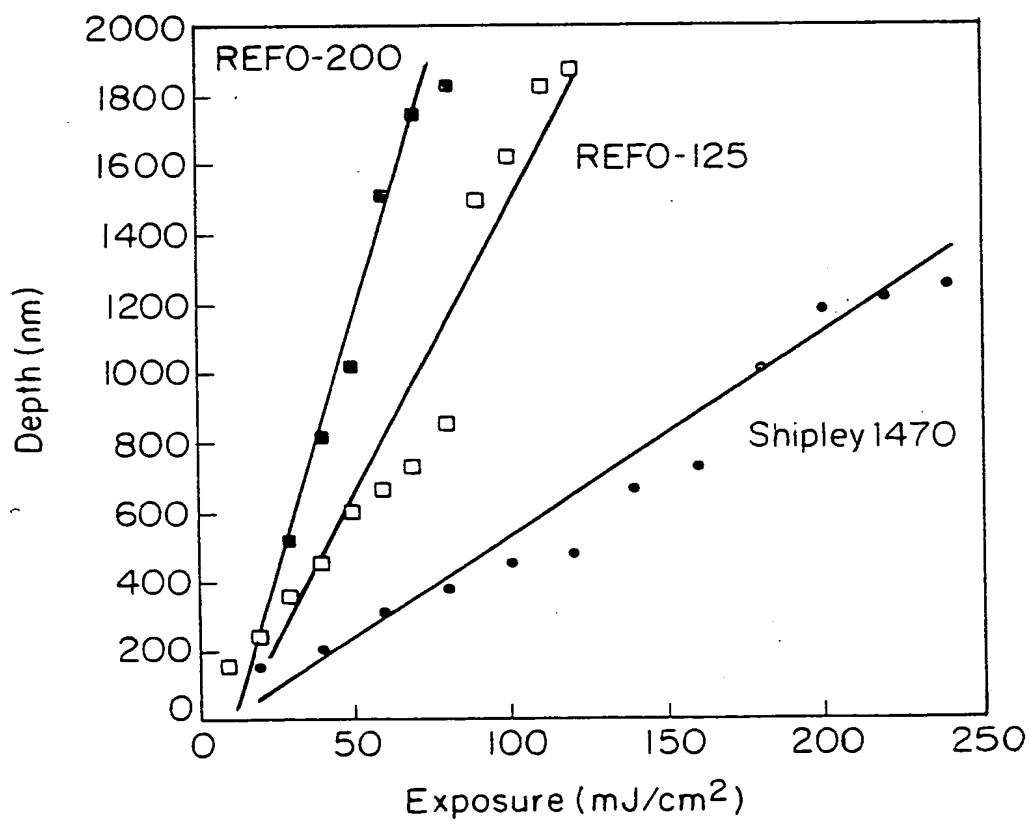
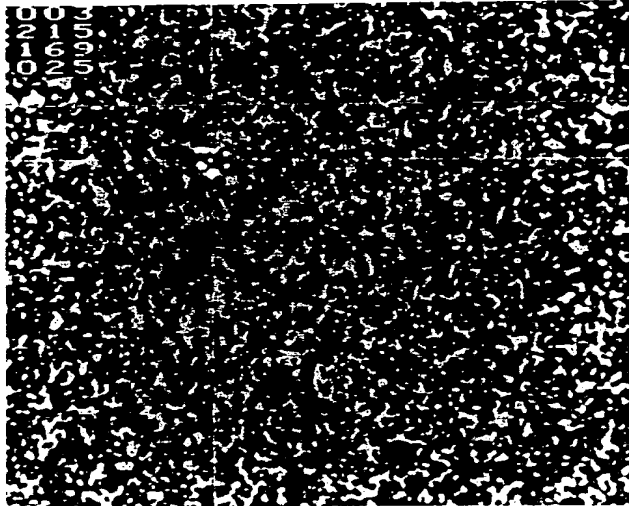
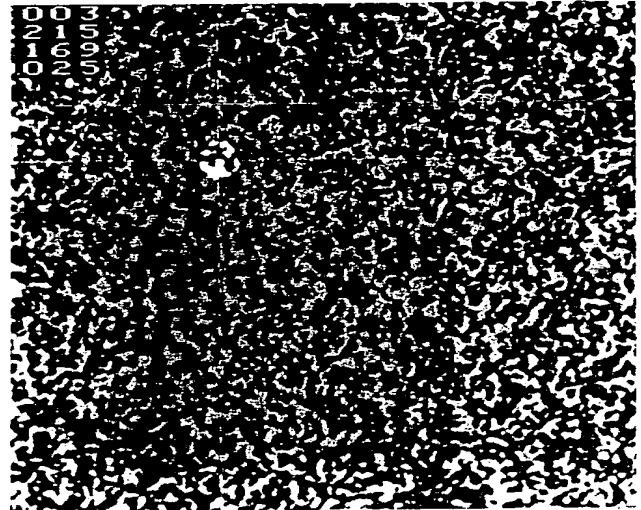


FIG. 18



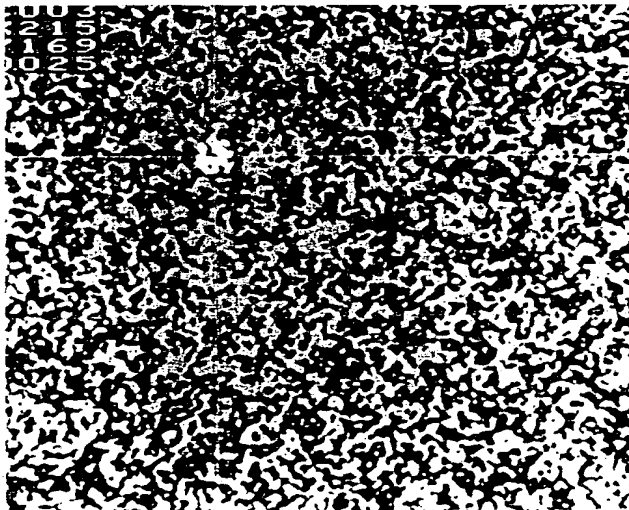
514mJ/cm²

FIG. 19C



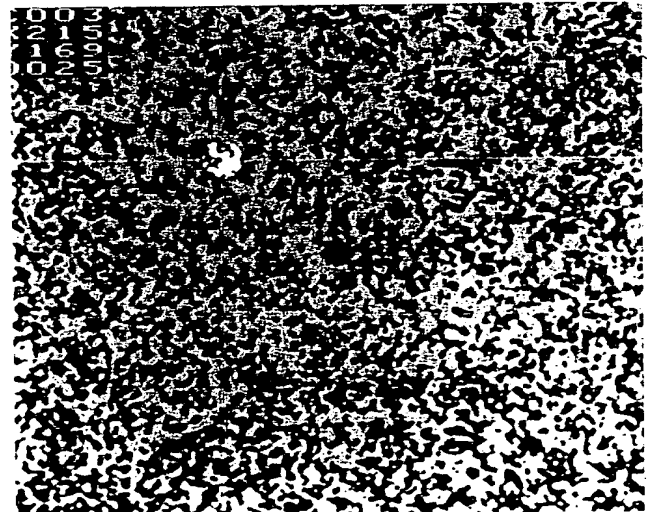
533mJ/cm²

FIG. 19D



554mJ/cm²

FIG. 19E



576mJ/cm²

FIG. 19F

FO6070" 56T0650